### **ATTACHMENT 2**

To: Members, Water Use Efficiency Subcommittee

From: Tom Gohring Date: October 25, 2002

Re: WUE Approach to Science and Monitoring

At the September 11 WUE Subcommittee meeting, participants reiterated their strong interest in having the program develop an overall approach to: (1) monitoring individual projects and analyzing monitoring data; (2) assessing overall WUE progress to-date; and, (3) projecting future WUE costs and benefits. In response, CALFED and its agency implementation partners agreed to develop a proposed strategy for addressing the WUE Element's monitoring and performance measure needs.

Attached please find an updated copy of the Water Use Efficiency Program Assessment and Year 3 Work Plan. This document includes a detailed description of the Program's proposed approach to science and monitoring. (See Task 1, Science & Monitoring, in Section II – Year 3 Work Plan on pages 11-14.)

Though this document is still in draft form, the intent is to lay out overarching tasks and roles. The approach has been discussed among CALFED, DWR, USBR and SWRCB representatives and, while CALFED implementation partners note that there are not currently sufficienct resources for them to carry out some of the included tasks, they generally support the proposed approach. The Program intends to develop a more specific scope of work to guide the proposed approach and bring this to the next WUE Subcommittee for in-depth discussion.

Please review the attached material and come to the November 5 meeting to discuss the adequacy of the proposed approach and next steps.

### DRAFT

# Water Use Efficiency Program Assessment and Work Plan - Year 3 October 21, 2002

### **CALFED Bay-Delta Program**

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### **BACKGROUND**

### Contacts

Department of Water Resources (DWR):

State Water Resources Control Board (SWRCB):

US Bureau of Reclamation (USBR):

USDA Natural Resources Conservation Service (NRCS):

CALFED Bay-Delta Program (CALFED):

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Dan Johnson

Tom Gohring

WUE Organizational Chart – Please see Figure 1 on page 5

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### Introduction

The CALFED Water Use Efficiency element, a cornerstone of CALFED's water management strategy, is unique nationally in its magnitude and its aggressive approach to water management. The Water Use Efficiency (WUE) element consists of the following components:

- Agricultural water conservation,
- Urban water conservation,
- Water recycling, and
- Wetlands water management

The WUE element is based on the recognition that although efficiency measures are implemented locally and regionally, the benefits accrue at local, regional and statewide levels.

The ultimate goal of the WUE element is to develop a set of programs and assurances that contribute to CALFED goals and objectives, has broad stakeholder acceptance, fosters efficient water use, and helps support a sustainable economy and ecosystem. The goals of the WUE element will be met by providing financial and technical assistance to local water suppliers and water users to improve water use efficiency. In addition, the WUE element will develop credible assurances and science-based performance measures to demonstrate that CALFED Agencies are implementing an appropriate level of water use efficiency actions.

This document provides a report of past and expected progress on the Water Use Efficiency (WUE) element of the CALFED Bay-Delta Program. This includes a report of progress for implementation during Years 1 and 2 of Stage 1 (Fiscal Years 2000-01 through 2001-02); a Work Plan for Year 3 (Fiscal Year 2002-03) and an assessment of expected expenditures during Stage 1 (Fiscal Years 2000 through 2007).

### **Record of Decision Actions and WUE Tasks**

CALFED's August 2000 Record of Decision (ROD) specified fifteen WUE-specific actions and one Science-related action related to the WUE element (Appendix A contains a description of these actions). Table 1 provides a cross reference between these 16 ROD actions and 17 tasks that have been developed by WUE staff to effectively address these ROD Actions

Table 1. ROD Actions and WUE Tasks

Table I.	ROD Action	s alla vv	<u> </u>	ı a	SNO	,													
ROD Referen		E Tasks	. Science & Monitoring	2. Water Measurement	3. Quantifiable Objectives	4. Certification	5. Agricultural Loans	6. Agricultural Grants	7. Urban Loans	8. Urban Grants	9. Ag Technical Assistance	10. Urban Technical Assist	11. Water Recycling Loans	12. Water Recycling Grants	13. Recycling Tech Assist	14. Recycling Research Grants	15. Managed Wetlands Grants	16. Wetlands Tech Assist	17. Oversight & Coordination
34	Program	12/31/00		7	$\mathcal{C}$	4	ν_	9	7	∞	6								1
35	Implem. Plan Public advisory committee	12/31/00																	✓
78	Loan & Grant Program	01/01/01					✓	✓	✓	✓			<b>✓</b>	✓		<b>✓</b>	✓		
76	WUE Finance proposal	07/31/01									✓								
171	Refine Quant. Objectives	Not specified			✓														
79	Establish Milestones	08/27/01																	✓
80, 114, 142, 177, 193, 270, 233	Annual Report	Dec. 31 of Each Year									✓								
77	Define Approp.  Measurement	12/31/01		✓															
113	Urban BMP Certification	12/01/02				✓													
141	Water Measm't Legislation	12/01/03		<b>√</b>															
173	Determine WUE Funding Needs	06/01/04									✓								
175	Technical Assistance	12/01/04									<b>✓</b>	✓			✓			✓	
174	4-year WUE Evaluation	12/31/04									✓								
176	Update Finance Plan	12/31/04									✓								
268	Performance Measures	Not specified	<b>✓</b>																
269	No Transfer Disincentives	Not specified																	✓

Although all CALFED Agencies have the opportunity to contribute to WUE activities, the CALFED Implementation MOU (Attached to the ROD) provided implementation roles for CALFED agencies related to WUE and other Program Elements<sup>1</sup>. Lead and Co-lead roles for the 17 WUE Tasks have been assigned to be consistent with the Implementation MOU (Table 2).

### Table 2. WUE Tasks and Agency Roles

This table is based on responsibilities under the current governance structure. The new governance structure under the Bay Delta Authority is primarily effective in Year 4.

			CALF	ED Agenci	es		
WUE Tasks	CALFED	DWR	USBR	SWRCB	NRCS	<b>CDFA</b>	USFWS
1. Science & Monitoring			C	o-Lead			
2. Water Measurement	Lead						
3. Quantifiable Objectives	C	o-Lead					
4. Certification	Lead						
5. Agricultural Loans		Co-	Lead				
6. Agricultural Grants		Co-	Lead		Lead (farm)		
7. Urban Loans		Co-	Lead				
8. Urban Grants		Co-	Lead				
9. Agricultural Technical Assistance		Co-	Lead		Lead (farm)		
10. Urban Technical Assistance		Co-	Lead				
11. Water Recycling Loans			Co	-Lead			
12. Water Recycling Grants			Co	-Lead			
13. Water Recycling Tech Assist		Co-	Lead				
14. Water Recycling Research Grants				Lead			
15. Managed Wetlands Grants			Lead				
16. Managed Wetlands Tech Assist			Lead				
17. Oversight & Coordination	Lead						

<sup>&</sup>lt;sup>1</sup> The CALFED Implementation MOU (attached to the ROD) delegated the following WUE implementation responsibilities:

- Oversight and Coordination: Policy Group and CALFED Program Staff
- Management of Agricultural & Urban Conservation:
  - o Loans & Grants (excluding Central Valley Project Improvement Act (CVPIA) & NRCS): DWR
  - o CVPIA WUE financial assistance: USBR
  - o Technical Assistance: DWR, USBR, & NRCS (on-farm)
- Management of Recycling:
  - o Federal programs: USBR (in coordination with SWRCB)
  - o State programs: SWRCB (in coordination with USBR)
- Management of Financial & Technical Assistance for Managed Wetlands: U.S. Fish and Wildlife Service (USFWS)
- Program Support: CDFA (on-farm practices & AWMC)

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Although the ROD describes WUE implementation roles for several agencies, only CALFED, DWR, USBR, SWRCB, NRCS are currently involved in WUE activities. Figure 1 shows the relationship between CALFED, the implementing agencies, the WUE Subcommittee, and the as yet formed WUE Science Panel.

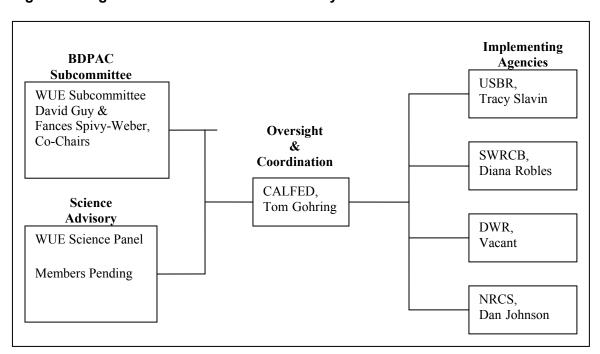


Figure 1. Organization of Water Use Efficiency Activities

### **SECTION I - YEAR 2 PROGRAM ASSESSMENT**

### A. Accomplishments to Date

This section provides brief descriptions of WUE activities by the CALFED Program and CALFED Agencies during Year 2 of CALFED Implementation. This information is organized by WUE task. The **Year 3 Work Plan (Section II) includes information on the objectives** of each of the WUE tasks as well as descriptions of proposed work during Year 3.

### Task 1 - Science & Monitoring

In cooperation with the CALFED Science Program, CALFED agencies made initial progress in developing WUE performance measures and WUE project monitoring.

CALFED Program staff convened a meeting of the CALFED Science staff, members of academia, CALFED Agency staff, and stakeholders to begin developing an approach to monitoring WUE projects. DWR staff used this information to improve the monitoring requirements in the 2002 WUE Proposal Solicitation Package. USBR and CALFED Program staff used this information to develop a consultant scope of services to develop a monitoring methodology for CALFED-funded WUE Projects. The USBR entered into a contract with North State Consultants to execute this scope of work.

CALFED Program and Agency staff worked with the CALFED Science program to develop the scope of the following science teams to ensure that WUE-related work is done in an acceptable manner:

- 1) WUE Science Review Panel
- 2) WUE Science Application Committee

The WUE Science Review Panel will consist of independent scientists and will review the methods, data, and results of WUE science activities. The WUE Science Application Committee will consist of representatives of CALFED Agencies and stakeholders and will provide practical advice on how to apply science in the WUE context.

DWR staff drafted a Work Plan for the Science Application Committee and convened its first two meetings.

DWR appointed the 2002 Water Recycling Task Force from a broad, diverse group of interested stakeholders and agencies, including SWRCB, California Department of Health Services (DHS), USBR, and CALFED. The Task Force will develop a report to the Legislature on overcoming the barriers to recycling of water in California. CALFED Program and SWRCB staff participated in the CALFED/Funding Subcommittee of the Task Force. This subcommittee outlined a white paper to describe the costs and benefits of water recycling projects in California.

### Task 2 - Water Measurement and Ag Assurances

CALFED Program staff continued development of Appropriate Water Use Measurement and Agricultural Assurances initiatives.

CALFED Program staff convened an independent scientific panel to help develop the definition of agricultural water measurement (part of ROD Action #77). The panel, which has met two times, is expected to hold its final deliberation in late 2002 after the completion of technical work and stakeholder outreach. The definition is expected to integrate the objectives of water measurement with the practical limits of existing technology and regional variability. DWR and USBR staff participated in these deliberations. CALFED Program staff also made progress on characterizing the costs and benefits of various measurement actions.

Significant progress also was made on establishing Agricultural Milestones (ROD Action #79), which are intended to provide assurance of appropriate implementation of the Agricultural WUE component through stated milestones. CALFED Program staff convened Ad Hoc stakeholder meetings for assistance in developing a comprehensive set of milestones, and associated benefits, remedies and/or consequences. DWR staff conducted four public workshops to solicit input on the draft milestones document. CALFED Program staff incorporated comments and presented the revised document to the WUE Subcommittee and to the Bay Delta Public Advisory Committee (BDPAC).

### Task 3 - Quantifiable Objectives

USBR and CALFED Program staff worked to incorporated Quantifiable Objectives into the Draft CVPIA 2002 Criteria for Evaluating Water Management Plans and the Draft Wetlands Water Management Criteria.

CALFED Program staff updated the underlying data for several Quantifiable Objectives and convened three technical briefings with DWR WUE staff to deliver information on the theory and formulation of Quantifiable Objectives. The intent of these sessions was to provide DWR WUE

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staff with the tools and background to articulate more Quantifiable Objectives (see Task 3, Section II – Year 3 Work Plan)

### Task 4 - Urban Certification

CALFED Program staff/consultants developed a Draft Staff Proposal for Urban Water Conservation Certification which is a conceptual framework for certifying urban water conservation by testing compliance with the terms of the Urban Memorandum of Understanding (MOU). This document was informed by a series of Ad Hoc stakeholder meetings with representatives of urban water suppliers and environmental interest groups.

This framework is intended to guide the development and eventual implementation of an urban water conservation certification process (ROD Action #113). The draft certification document was presented to the plenary session of the California Urban Water Conservation Council and the WUE Subcommittee. It also was discussed with interested members of the public through a series of four public workshops held throughout the state.

DWR, SWRCB, and USBR staff participated in the Ad Hoc work group.

### Task 5 – Agricultural Loans

DWR staff made progress in developing a loan solicitation package consistent with and based on funding from the DWR: Proposition 13 – Water Conservation Loan and Grant Program. The loan solicitation will be issued in Year 3.

### **Task 6 – Agricultural Grants**

DWR staff prepared an agricultural grant Proposal Solicitation Package (PSP) that invited feasibility study grants (with minimal funding from Proposition 13) and projects grants (with no available funding). USBR and CALFED Program staff provided review of the draft PSP. DWR awarded 8 feasibility study grants totaling \$800,000. Staff of the CALFED Program, USBR, NRCS, SWRCB and stakeholder organizations reviewed submitted proposals.

USBR staff continued to implement the Water Conservation Field Services Program (WCFSP) and provided agricultural grants totaling \$503,000 (estimated local cost-share is approximately \$500,000).

Through the USDA Environmental Quality Incentive Program (EQIP) NRCS has provided an estimated \$3,515,800 in cost share for about 2,000 on-farm irrigation projects and other water management activities. Local (farmer) contribution was about \$7,648,200. These activities are considered Category B.

NRCS has developed a plan to identify opportunities and constraints to implementing improved water management practices on-farm. A series of meetings will be conducted throughout California with state and local experts and producers to gather the information that will serve as the basis for developing the on-farm grant program. These activities were funded by CALFED through the USBR.

### Task 7 – Urban Loans

No urban water conservation loans were available during Year 2.

### Task 8 – Urban Grants

DWR staff prepared an urban grant PSP with funding from Proposition 13. USBR and CALFED Program staff provided review of the draft PSP. DWR awarded 29 grants totaling \$9 million

(estimated local cost share was \$2.16 million). These projects are expected to conserve 171 thousand acre-feet of water. Staff of the CALFED Program, USBR, NRCS, SWRCB, and stakeholder organizations reviewed submitted proposals.

USBR staff awarded urban water conservation grants through the WCFSP totaling \$482,000 (estimated local cost-share is approximately \$480,000).

### Task 9 & 10 - Agricultural and Urban Technical Assistance

DWR received funding and authority for establishing ten new positions to provide technical assistance for urban and agricultural water conservation, financial assistance, and recycling, Activities included information dissemination, training, direct planning and design service, providing technical staff for the 2002 Recycled Water Taskforce established by AB331, and assistance with Loan and Grant applications.

DWR and USBR jointly funded technical assistance activities of the Agricultural Water Management Council. DWR and USBR also jointly funded technical assistance activities of the California Urban Water Conservation Council.

NRCS continued its on-farm technical assistance program with producers. In association with the EQIP financial assistance program, NRCS assisted producers in the planning, design and design review of water management practices.

### Task 11 – Water Recycling Loans

The SWRCB Office of Water Recycling awarded six water recycling loans totaling \$72 million and committing all water recycling construction loan funds, including 1984 Bond law funds. Because water recycling construction grants administered by the SWRCB only provide for twenty-five percent of the construction funding, loan funding from these programs provide financial assistance for the remaining seventy-five percent of the construction costs. Projects receiving SWRCB loan funding contribute to a proposed increase of 36,000 acre-feet per year of recycled water

### Task 12 – Water Recycling Grants

The SWRCB awarded fifteen water recycling grants totaling \$50 million of a total of \$57 Million of water recycling construction grant funds from Proposition 13 (includes remaining Proposition 204 funds). These grant funds provide for twenty-five percent of the construction costs of the project facilities. The remaining seventy-five percent of the construction funding costs are funded by local funds and/or other funding sources (SWRCB loans, USBR, etc.) These projects include the loan funded projects described in Task 11 above, and contribute to the proposed increase of 36,000 acre-feet per year of recycled water.

The USBR awarded 9 water recycling construction projects totaled \$19.7 million which were matched by \$59,193,000 in local cost-share.

### Task 13 - Water Recycling Technical Assistance

DWR and SWRCB have played a vital role in the development of the 2002 Water Recycling Task Force. The mission of the Task Force is to convene statewide policy makers to determine the key obstacles to water recycling in California, and make recommendations to the Legislature for solutions to the identified obstacles. SWRCB member Richard Katz serves as the chair of the Task Force; CALFED Director Patrick Wright and DWR Deputy Director Jonas Minton also serve on the committee.

As established in Assembly Bill 331, DWR has taken the lead role in developing the Task Force and the SWRCB is funding the expenses of the Task Force. Additionally, the SWRCB's Office of Water Recycling has loaned one staff person to work solely on Task Force support tasks. CALFED staff is participating in the "CALFED/Funding" subcommittee of the Task Force.

### Task 14 – Water Recycling Research Grants

The SWRCB has provided a \$1 million research grant to the WateReuse Foundation from the Proposition 13 water recycling research grant funds. The SWRCB's \$1 Million grant commitment to the Foundation's existing research program is matched with grant funds from the U.S. Bureau of Reclamation. The National Water Research Institute convened nationwide experts and identified ten research topics as being the highest priorities of research to further the use of recycled water for non-potable uses. Individual research topics within the identified areas of interest are defined by the Foundation and requests for proposals are issued for each topic. The benefits gained by funding granted towards water recycling research are not immediately identifiable as are benefits gained from funding of construction projects.

The SWRCB, in conjunction with the 2002 Water Recycling Task Force, will administer the remaining \$1 million of research grant funds towards statewide research needs identified by the Task Force.

### Task 15 – Managed Wetlands Grants

No grants were available in Year 2 for Managed Wetlands.

### Task 16 - Managed Wetlands Technical Assistance

The USBR made progress on developing Draft Criteria for water management on wetlands. CALFED Program staff assisted the USBR in incorporating Quantifiable Objectives into Draft Criteria.

### Task 17 – Oversight and Coordination

WUE oversight and coordination activities during Year 2 included formal and informal communication among agencies and stakeholders; development and implementation of reporting tools; and ongoing strategic planning.

The primary method of formal agency/stakeholder communication for the WUE element is the WUE Subcommittee to the Bay-Delta Public Advisory Committee (BDPAC). The WUE Subcommittee provides advice and policy recommendations, in the form of advisory statements or documents, to the BDPAC with copies to the CALFED Policy Group. Advice and policy recommendations will incorporate and/or be responsive to input received from WUE Subcommittee members, CALFED agency staff, CALFED Policy Group, and the BDPAC. Policy Group, BDPAC, and the WUE Program Manager may provide direction to and ask WUE-PAC to address issues related to its mission and objectives. During Year 2, CALFED Program staff developed the "charter" and membership of the WUE Subcommittee and convened meetings of the Subcommittee on March 6, 2002 and June 24, 2002.

Informal communication took place during Year 2 through interagency meetings, public workshops, and Ad Hoc work groups as needed.

CALFED Program, DWR, SWRCB, and USBR staff provided information to CALFED management and stakeholders through periodic reports, by contributing data to the CALFED tracking program, and through formal reports like this one.

Because the SWRCB recycling programs are designated as Category A by the ROD, SWRCB staff has increased participation in meetings with CALFED and other Water Recycling funding agencies during Year 2.

### **B. Program Delays**

DWR has not received any eligible agricultural water conservation loan applications (funded by Prop 13). Due to the lack of interest, DWR did not solicit agricultural water conservation loans in Year 2 but expects to have a revised agricultural loan solicitation during Year 3.

The SWRCB has experienced no significant delays in the administering of Proposition 13 funds to local agencies for water recycling projects. Delays on project funding obligations that have occurred are due to difficulty of local agencies in completing required environmental documents/procedures (i.e. California Environmental Quality Act requirements, State Historic Preservation Office clearance, etc.).

As of June 2002, only \$9.3 million remain of the SWRCB's Proposition 13 - 2000 Bond Law Water Recycling funds for southern California remain to be committed. Three southern California agencies are proposed to receive water recycling construction grant commitments by October 2002, completely committing all Proposition 13 construction funds for water recycling facilities.

The SWRCB's Office of Water Recycling is currently involved in the funding approval process to commit further grant funding to five local agencies for the construction of recycled water facilities. However, recent legislation lacked the appropriation of further funds into the water recycling sub-accounts. As a result, the funding process for these agencies has been placed on hold.

The USBR has experienced no significant delays in implementation of the WCFSP in the Central Valley.

The NRCS has experienced delays in providing on-farm water conservation technical assistance at the desired level. Staffing constraints and the demands of administering financial assistance programs has limited technical assistance.

NRCS progress on developing recommendations for the on-farm grant program has been delayed due to priority work being done on other WUE tasks as well as other agency priorities. The on-farm grant program will be the year 3 priority.

CALFED continues to experience significant delays in executing contracts for outside services needed to support program implementation. Critical services that have been delayed include facilitation services needed to effectively convene stakeholder work groups and technical services required to determine the costs and benefits of water measurement. As a result, progress on two ROD commitments – appropriate water use measurement and agricultural milestones – is moving forward more slowly than expected (see section below.)

### C. Status of Rod Commitments

The following WUE ROD Commitments had deadlines prior to the end of Year 2:

Program Implementation Plan (ROD Action #34): Due 12/31/00

- Public advisory committee (ROD Action #35): Due 12/31/00
- Loan & Grant Program (ROD Action #78): Due 01/01/01
- Finance proposal (ROD Action #76): Due 07/31/01
- Establish Agricultural Milestones (ROD Action #79): Due 08/27/01
- Define Appropriate Measurement (ROD Action #77): Due 12/31/01
- Annual Report (ROD Action #80): Due 12/31/01

All of these tasks have been completed except Task 77 – Define Appropriate Measurement and Task 79 – Establish Agricultural Milestones. CALFED is making significant progress on both of these overdue tasks. ROD Action #77 is scheduled to be competed in Mid-2003 which will allow the dependent ROD Action #141 (Water Measurement Legislation) to be completed on schedule during the 2003 California Legislative session. Task 79 was completed in September 2002, following review by the BDPAC.

### **SECTION II - YEAR 3 WORK PLAN**

### A. Tasks and Schedule

Note: Major Work Products (Products) and due dates related to the tasks described below are listed in Table 3.

### Task 1 - Science & Monitoring

**Objectives:** The primary objectives of WUE science activities are to: 1) support and inform sound decisions; 2) verify results of actions; and 3) engage in adaptive management. A cornerstone of these efforts is the development of water use efficiency performance measures. Performance measures represent estimates of WUE costs and benefits (e.g. volume water conserved), including past performance (since the ROD) and projections of likely future performance. Accordingly, WUE science tasks include activities related to collecting and analyzing data from water conservation and recycling projects, articulating testable hypotheses, (which includes developing and refining appropriate inference models), performing computations and interpreting results, and developing appropriate WUE monitoring methods and incorporating them into proposal solicitation processes.

WUE science activities must be carried out in an open and scientifically rigorous manner if their results are to be broadly accepted by CALFED stakeholders and policy makers. CALFED agencies will engage the services of the WUE Science Panel to ensure that work receives an appropriate level of third party review to increase the overall veracity and credibility of the work.

The WUE Science Panel, to be convened for the first time by the CALFED Program in early 2003, will review the methods, data, and results of WUE science activities. It will consist of about five independent scientists with collective expertise in agricultural engineering, hydrology, resource economics, and other expertise as needed.

DWR and the USBR will continue to jointly implement CALFED research efforts determining needed research projects and individually managing projects as appropriate. DWR staff will also showcase some of the WUE grant projects and facilitate discussions of associated monitoring at the CALFED Science Conference to be held in January 2003.

**Planned Activities:** The WUE Science activities have been organized into the following subtasks:

### **Subtask 1.1 Monitor and Analyze WUE Projects**

The purpose of this subtask is to determine the costs and benefits of individual WUE projects. These projects will primarily include those that have received WUE Grant or Loan funding but may also include other local projects. This Subtask is further divided into the following activities:

- 1.1a) Assess Monitoring The USBR has engaged a consulting team to assess the
  quality and approach to monitoring existing WUE Grant projects. This work is
  expected to be completed in March 2004 and will culminate with a report (Product
  1.01).
- 1.1b) Describe Monitoring Requirements Each of the implementing WUE
  agencies will contribute to a Technical Memorandum describing the appropriate
  level of monitoring for different types of WUE projects (Product 1.02). The WUE
  Science Panel will review this document (Product 1.03) to validate it and/or offer
  suggestions for refinement).
- 1.1c) Collect Monitoring Data The implementing agencies will continue to collect monitoring data for Grant and Loan projects. This data will be stored in a MS Access Database (Product 1.04) and made available to other CALFED agencies (Product 1.05).
- 1.1d) Analyze Monitoring Data The implementing agencies will analyze the
  monitoring data and interpret the results. This work is expected to include
  estimates of the costs and benefits of the monitored projects which will be described
  in a Technical Memorandum (Products 1.06 and 1.08). The WUE Science Panel
  will review this document to validate it and/or offer and offer suggestions for
  refinement (Product 1.07).

### **Subtask 1.2 Assess WUE Performance**

The purpose of this subtask is to estimate the total costs and benefits of WUE activities since CALFED began implementation (since August 2000 when the ROD was finalized). This Subtask is further divided into the following activities:

- 1.2a) Develop Approach and Collect Data CALFED will engage a consultant team to describe the most appropriate approach to estimating past WUE costs and performance. The approach will be described in a Technical Memorandum (Products 1.09 and 1.11) which will be reviewed by the WUE Science Panel (Product 1.10). The primary metric for computing benefits will be Acre-Feet of conserved water. The volume of conserved water will be designated as a reduction in irrecoverable losses (so-called "wet water") that increase the useable water supply or rerouted flows (so-called "paper water") that can improve in-stream flow or water quality. Where possible, other non-quantifiable benefits, such as increased supply reliability, will also be noted.
- 1.2b) Assess Past WUE Performance Using the approach developed in Subtask 1.2a, the CALFED consulting team will calculate the costs and benefits of WUE activities (Product 1.12). The methods, assumptions, data, and results of these computations will be presented in a Technical Memorandum (Products 1.13 and 1.15). The WUE Science Panel will review this document (Product 1.14) to validate it and/or offer and offer suggestions for refinement.

 1.2c) Facilitate Performance Process – CALFED will engage the services of CONCUR, Inc. to facilitate the development and computation of the past performance. These services will be designed to inform and solicit input from interested stakeholders on the progress and underlying scientific principles of this work. Facilitated sessions are expected to include a mix of staff ad hoc meetings (Product 1.16) and public workshops (Product 1.17).

### **Subtask 1.3 Project WUE Potential**

The purpose of this subtask is to estimate the total costs and benefits of WUE activities that are expected in the future; both for CALFED's Stage 1 (through 2007) and until 2030. This Subtask is further divided into the following activities:

- 1.3a) Develop Projection Approach CALFED will engage a consultant team to describe the most appropriate approach to estimating future WUE costs and performance. The approach will be described in a Technical Memorandum (Products 1.18 and 1.20) which will be reviewed by the WUE Science Panel (Product 1.19). As with Subtask 1.2, the primary metric for computing benefits will be Acre-Feet of conserved water, and where possible, other non-quantifiable benefits, such as increased supply reliability, will also be documented.
- 1.3b) Project WUE Potential Using the approach developed in Subtask 1.3a, the CALFED consulting team will project the costs and benefits of WUE activities for Stage 1 (Product 1.22) and until 2030 (Product 1.23). The methods, assumptions, data, and results of these computations will be presented in a Technical Memorandum (Products 1.24, 1.25, 1.28 and 1.29). The WUE Science Panel will review this document (Products 1.26 and 1.27 it and/or offer suggestions for refinement.
- This subtask also includes the development of Draft Wetlands Water Management Criteria by the USBR (Product 1.21). Development of these criteria is a requirement under the Central Valley Project Improvement Act (1992) and is being carried out in a manner consistent with the WUE Science Approach.
- 1.3c) Facilitate Projection Process CALFED will engage the services of CONCUR, Inc. to facilitate the development and computation of the performance projections. These services will be designed to inform and solicit input from interested stakeholders on the progress and underlying scientific principles of this work. Facilitated sessions are expected to include a mix of staff ad hoc meetings (Product 1.30) and public workshops (Product 1.31).

### **Subtask 1.4 Manage WUE Science Panel**

The purpose of this subtask is to establish and maintain a panel of independent WUE experts. The WUE Science Panel will provide ongoing review of science-related materials (see Products 1.03, 1.07, 1.10, 1.14, 1.15, 1.19, 1.26, and 1.27). This Subtask is further divided into the following activities:

 1.4a) Organize Panel – CALFED Program staff/consultants will coordinate with the CALFED Science Program, other CALFED agencies, and stakeholders to establish selection criteria for and recruit four to six independent scientists to serve on the WUE Science Review Panel (Product 1.32). The panelist will possess expertise in agricultural engineering, water science, resource economics, and other disciplines as needed. CALFED will develop and solicit public review panel selection criteria. Names of potential panelists will be solicited from the WUE Subcommittee and the CALFED Science Program.

- 1.4b) Facilitate Panel CALFED has engaged CONCUR, Inc. to facilitate the WUE Science Panel. Facilitation activities will include ensuring efficient and complete information flow between panelists, the WUE Subcommittee, and CALFED WUE staff; development of meeting agendas; and recording meeting outcomes and public comments (Product 1.33). The WUE Science Panel meetings are expected to be conducted in public. CALFED will convene at least four meetings of the WUE Science Review Panel. The staff of DWR, NRCS, SWRCB, and USBR will participate in these meetings.
- 1.4c) Develop Science Priorities The WUE Science Panel will be asked to
  develop a list of science priorities related to water use efficiency (Product 1.34).
  Some research needs have been identified during Years 1 and 2. The Panel will
  build on this initial assessment of research needs and draft a more comprehensive
  list of science priorities related to monitoring, adaptive management, and
  performance measures as well as research.

Table 3. WUE Year 3 Major Work

	Work Product Number & Description	Due Date	Responsible Agency	Related WUE Subtask & Task	κ & Task
1.01	Report with Sample Data	Mar '04	USBR	1.1a. Assess Monitoring	
1.02	TM: Monitoring Requirement for WUE	Jan '03	Agencies	1.1b. Describe	
1.03	Review Memo: WUE Monitoring Requirement	Feb '03	WUE Sci. Panel	Monitoring Requirements	
1.04	1.04 MS Access Monitoring Database	Dec '02	Agencies	1.1c. Collect Monitoring	
1.05	Data: Monitoring Information	Mar '03	Agencies	Data	
1.06	Draft TM: Results of WUE Monitoring Data	Apr '03	Agencies		
1.07	1.07 Review TM: Results of WUE Monitoring	May '04	WUE Sci. Panel	1.1d. Analyze Monitoring Data	
1.08	Final TM: Results of WUE Monitoring Data	Jun '03	Agencies		
1.09	Draft TM: Approach: Past WUE Perf.	Nov '02	CALFED	-	
1.10	1.10 Review TM: Approach: Past WUE Perf.	Dec '02	WUE Sci. Panel	1.2a. Develop Approach	1. Science
1.11	Final TM: Approach: Past WUE Perf.	Jan '03	CALFED		α Monitoring
1.12	Calculation: Past WUE Perf. Since CALFED ROD	Mar '03	CALFED		)
1.13	Draft TM: Past WUE Perf. Since CALFED ROD	Apr '03	CALFED	1.2b. Assess Past	
1.14	Review TM: Past WUE Perf. Since CALFED ROD	May '03	WUE Sci. Panel	Performance	
1.15	1.15 Final TM: Past WUE Perf. Since CALFED ROD	Jun '03	WUE Sci. Panel		
1.16	1.16 Facilitate Staff Work Groups	Ongoing	CALFED	1.2c. Facilitate	
1.17	Facilitate Public Meetings	Ongoing	CALFED	Performance Process	
1.18	Draft TM: Approach: Projecting WUE Perf.	Nov '02	CALFED		
1.19	Review TM: Approach: Projecting WUE Perf.	Dec '02	WUE Sci. Panel	1.3a. Develop Projection Annroach	
1.20	Final TM: Approach: Projecting WUE Perf.	Jan '03	CALFED		
					1

Continued...

	Table 3. WUE	Major Wo	able 3. WUE Major Work Products (continued)	ned)		
		Dne	Kesponsible			
	Work Product Number & Description	Date	Agency	Related WUE Subtask & Task	ubtask & Ta	ask
1.21	Draft Wetlands Water Management Criteria	Apr '03	USBR			
1.22	Calculation: Stage 1 Projection of WUE Perf.	Mar '03	CALFED			
1.23	Calculation: 30-Year Projection of WUE Perf.	Mar '03	CALFED			
1.24	Draft TM: Stage 1 Projection of WUE Perf.	Apr '03	CALFED			
1.25	Draft TM: 30-Year Projection of WUE Perf.	Apr '03	CALFED	1.3b. Project WUE Potential	1.3 Project	
1.26	Review TM: Stage 1 Projection of WUE Perf.	May '03	WUE Sci. Panel		WUE	
1.27	Review TM: 30-Year Projection of WUE Perf.	May '03	WUE Sci. Panel		Potential	1. Science
1.28	Final TM: Stage 1 Projection of WUE Perf.	Jun '03	CALFED			જ :
1.29	Final TM: 30-Year Projection of WUE Perf.	Jun '03	CALFED			
1.30	Facilitate Staff Work Groups	Ongoing	CALFED	1.3c. Facilitate Projection		
1.31	Facilitate Public Meetings	Ongoing	CALFED	Process		
1.32	Invitations to WUE Science Review Panelists	Dec '02	CALFED	1.4a. Organize Panel	1.4	
1.33	Agendas & Key Outcomes: WUE Science Panel	Ongoing	CALFED	1.4b. Facilitate Panel	Manage	
1.34	TM: WUE Science Priorities	May '03	WUE Sci. Panel	1.4c. Develop Science Priorities	Science Panel	
2.01	Def: Appropriate Measurement of Ag Water Use	Dec '02				
2.02	TM: Approach to Defining Approp. Urban Meas.	Sep '02				
2.03	Def: Approp. Measurement of Urban Water Use	Mar '03	CALFED	2. Water Measurement		
2.04	Draft Components of Water Meas. Legislation	May '03				
2.05	2.05 Agricultural Milestones	Sep '02				

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	Table 3. WUE	Major Wo	WUE Major Work Products (continued)	ned)
		Due Date	Responsible Agency	Related WUE Subtask & Task
3.01	Meeting Agendas & Key Outcomes: QO Training	Dec '02	CALFED	
3.02	TM: Review of Existing Quantifiable Objectives	Mar '03	d/MU	3 Organtifiable Objectives
3.03	Updated Doc: Details of Quantifiable Objectives	May '03	DWR	5. Qualititable Objectives
3.04	Draft Wetlands Water Management Criteria	Jun '03	USBR	
4.01	Final Framework: Urban Water Cons. Certification	Sep '02	UEELV	1 Cartification
4.02	Draft elements of Certification Legislation	Dec '02	CALLED	4. Columbation
5.01	Proposition 13 Ag Loan Solicitation	Mar '03	DWR	5. Ag Loans
6.01	Water Conservation Field Service Program	Mar '03	USBR	6. Ag Grants
	None			7. Urban Loans
8.01	WUE Proposal Solicitation Package	Nov '02	DWR	8.Urban Grants
9.01	TM: Best Approaches to On-Farm WUE Incentives	Apr '03	NRCS	9 & 10. Ag/Urban Tech. Assist.
	None			11. Recy Loans
12.01	Proposition 13 Water Recycling Grant Awards	Continuous	SWRCB	12 Reweling Grants
12.02	Title XVI Recycling Grant Awards	Sep '03	USBR	12. Necycling Grants
13.01	2002 Water Recycling Task Force Report	Apr '03	SWRCB	13 Berwling Tech Assist
13.02	White Paper: Water Recycling Costs and Benefits	Sep '02	CALFED & SWRCB	15. tectyching 1 cen (155)51
	None			14.RecyResrch
	None			15.Wtlnds Grnt
16.01	Criteria for Water Management on Wetlands	Sep '03	USBR & CALFED	16.Wtlnd Tech
17.01	Annual WUE Assessment and Work Plan	Sep '02		
17.02	WUE Annual Report	Dec '02	CALEED	17 Overciaht & Coordination
17.03	17.03 WUE Tracking Report	Oct '02		
17.04	WUE Subcommittee Meeting Materials	Varies		

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File: WUE Revised FINAL 10-21-02(hs) Revised: October 21, 2002

CALFED Program staff will coordinate with the CALFED Science Program, other CALFED agencies, and stakeholders to name four to six independent scientists to serve on the WUE Science Review Panel (Product 1.02). CALFED Program staff will convene at least four meetings of the WUE Science Review Panel (Product 1.03). The staff of DWR, NRCS, SWRCB, and USBR will participate in these meetings as necessary. The WUE Science Review Panel will review science products as required, including Products 1.05 and 1.06 (Table 3).

DWR will continue to convene the WUE Science Application Committee and other WUE agencies will actively participate (Product 1.19). CALFED Program Staff will act as liaison between the Review Panel and Application Committee. The Application Committee is expected to meet approximately once a month during Year 3. The Science Application Committee will provide guidance on the practical aspects of WUE Science and will review scientific work products as appropriate (Products 1.07 and 1.08).

CALFED Program staff will continue to oversee and coordinate the development of quantified WUE performance measures that are being developed by CALFED Agencies (please see Task 3, Quantifiable Objectives for a discussion of agricultural performance measures). CALFED Program staff will provide implementing agencies with guidance on computing WUE performance (costs and benefits), including the timeframe for computing past and future performance and other parameter (Product 1.01) and will prepare a monitoring database (Product 1.04).

WUE implementing agencies will perform a variety of science activities including the following:

- Calculate the performance of WUE grant projects and a sample of locally funded projects (Products 1.09 & 1.10).
- Develop guidelines monitoring WUE projects (Product 1.11) and collect monitoring data (Product 1.14).
- Articulate an approach to estimating the past performance of all WUE projects that are directly or indirectly connected to the Bay-Delta (Product 1.12).
- Articulate an approach to estimating the expected performance of all WUE projects that are likely to be directly or indirectly connected to the Bay-Delta in the future (Product 1.13).
- Use these approaches (after adjusting them based on review comments from the WUE Science Application Committee and the WUE Science Review Panel) to estimate WUE performance during Years 1 and 2 (Product 1.15), Stage 1 (Product 1.16), and through 2030 (Product 1.17).

DWR staff will conduct the activities above that are related to agricultural and urban water conservation; SWRCB will conduct the recycling-related activities; and USBR staff will conduct those activities related to managed wetlands.

DWR staff will also showcase some of the WUE grant projects and facilitate discussions of associated monitoring at the CALFED Science Conference to be held in January 2003.

Some research needs have been identified during Years 1 and 2. DWR and the USBR will continue to jointly implement CALFED research efforts determining needed research projects

and individually managing projects as appropriate. DWR and USBR, in consultation with the Science Application Committee will also prepare a list of WUE research priorities (Product 1.19).

### Task 2 - Water Measurement and Ag Assurances

**Objectives:** CALFED policy-makers recognized that there is a perception among some CALFED stakeholders that existing approaches to water use measurement are inadequate. Accordingly, two ROD Actions – #77, Define Appropriate Measurement and #141, Water Measurement Legislation – commit CALFED to resolve measurement issues. ROD Action #77 involves developing a consensus definition of appropriate measurement of water in agricultural and urban sectors. ROD Action #141 directs CALFED to draft legislation (for introduction in the 2003 California Legislative session) that would require appropriate measurement of all water uses in the state – including surface and groundwater.

The ROD also directed CALFED to establish Agricultural Milestones (ROD Action #79) which is to provide assurance of appropriate implementation of the Agricultural WUE component through stated milestones, and associated benefits, remedies and/or consequences.

**Planned Activities:** CALFED Program staff will convene the final deliberation of the independent scientific panel in fall 2002 to develop the agricultural component of the definition of appropriate measurement of water use. DWR, SWRCB, and USBR staff will participate in these deliberations. This will be closely followed by a staff draft of the definition of appropriate measurement of agricultural water use (Product 2.01). CALFED Program staff will solicit CALFED Management and public review of the draft definition.

CALFED Program staff will conduct in-depth stakeholder interviews to determine the scope and appropriate process for developing the definition of appropriate measurement of urban water use (Product 2.02). CALFED Program staff will then: 1) conduct the necessary background technical work; and 2) initiate an appropriate process to effectively gather ongoing input from urban and environmental stakeholders. DWR, SWRCB, and USBR staff will participate in this process. The product of these activities will be a draft definition of appropriate measurement of urban water use (Product 2.03). CALFED Program staff will solicit CALFED Management and public review of the draft definition.

Using the agricultural and urban water measurement definitions described above, CALFED Program staff – with appropriate BDPAC and CALFED Policy Group concurrence – will work with the State Legislature to draft elements of water measurement legislation (Product 2.04).

CALFED Program staff completed the Agriculture Milestones (ROD Action #79).

### Task 3 - Quantifiable Objectives

**Objectives:** CALFED has developed a list of 200 potential Quantifiable Objectives, practical contributions that can be made to the Bay-Delta system through agricultural water management.

These Quantifiable Objectives were developed during CALFED's planning phase to provide stakeholders with tangible yet practical agricultural WUE performance measures. CALFED Program Staff has articulated (quantified) 60 of those 200 potential Quantifiable Objectives. During implementation, CALFED agencies will refine existing Quantifiable Objectives and articulate more as part of an overall effort to develop quantified performance measures using rigorous science (see Task 1 – Science and Monitoring, above).

**Planned Activities:** DWR staff, using available information, will refine and review existing Quantifiable Objectives (Product 3.02) and articulate several more Quantifiable Objectives during Year 3 (Product 3.03). USBR staff will continue to incorporate Quantifiable Objectives into the Draft CVPIA 2002 Criteria for Evaluating Water Management Plans and the Draft Wetlands Water Management Criteria (Product 3.04). CALFED Program staff will provide the information and training to DWR and USBR necessary to assist their articulation of the already identified Quantifiable Objectives (Product 3.01).

### Task 4 – Urban Certification

**Objectives:** The ROD directed CALFED to develop a method for certifying urban water conservation by building upon the work of the California Urban Water Conservation Council (CUWCC), a non-profit organization consisting of urban water suppliers, environmental organizations and other interested parties. The CUWCC's Memorandum of Understanding (MOU) is a broadly supported agreement that specifies 14 urban water conservation best management practices (BMPs).

CALFED Program staff has developed a proposed conceptual urban certification framework consistent with the following driving rationales: (1) certify compliance with the CUWCC's MOU and build upon the CUWCC's experience and expertise; (2) rely on an independent entity, not the CUWCC, to take on the formal certification and appeals responsibilities; (3) develop a framework in a balanced manner that furthers conservation efforts, supports CALFED objectives and preserves the MOU's flexibility; (4) build capacity and awareness among smaller and disadvantaged water suppliers; (5) focus certification initially on a limited number of water suppliers; (6) minimize redundancies and inconsistencies with existing regulatory and planning processes; and, (7) recognize the value of and need for an adaptive management approach.

**Planned Activities:** CALFED Program staff will finalize the proposed conceptual framework for certifying urban water conservation following review by the BDPAC and CALFED Policy Group (Product 4.01). Staff will continue to work with DWR, USBR, and the California Urban Water Conservation Council (CUWCC) to resolve the outstanding technical issues described in the certification framework. Staff will also continue to work with the California Public Utilities Commission to resolve issues related to compliance by Investor Owned Utilities. CALFED will begin drafting components of legislation required for SWRCB to implement Urban Water Conservation Certification (Product 4.02).

### Task 5 – Agricultural Loans

**Objectives:** A primary objective of the CALFED WUE element is to facilitate implementation of WUE actions at the local level – by cities, water suppliers, and farmers. CALFED agencies use low interest loans to help local entities overcome financial barriers to WUE implementation.

**Planned Activities:** DWR will release the second Proposition 13 Agricultural Loan Program application package during Year 3 (Product 5.01). Agricultural Water Conservation Loans will be available on an ongoing basis until the remaining Proposition 13 agricultural water conservation funds are awarded.

### **Task 6 – Agricultural Grants**

**Objectives:** As with loans, CALFED agencies also use grant funding to invest in local WUE implementation.

**Planned Activities:** USBR will continue the Water Conservation Field Service Program in Year 3 at higher funding levels that FY 02. \$1.21 million in funding is available (Product 6.01).

USDA, NRCS EQIP funds for on-farm practices are expected to increase significantly and may triple for Year 3. Funding could exceed \$5,000,000. These activities may be considered for inclusion in Category A.

### Task 7 – Urban Loans

**Objectives:** CALFED agencies use low interest loans to help local entities overcome financial barriers to WUE implementation.

Planned Activities: No urban water conservation loans will be available during Year 3.

### Task 8 – Urban Grants

Objectives: CALFED agencies use grants to help local entities implement WUE projects.

**Planned Activities:** DWR will release the third WUE Proposal Solicitation Package in Year 3. \$18 million of Proposition 13 funds are available for urban grants (Product 8.01). Staff of the CALFED Program, NRCS, SWRCB, USBR, and stakeholder organizations will provide review of the draft PSP and the proposals. USBR will continue the Water Conservation Field Service Program in Year 3 at higher funding levels that FY 02. \$1.21 million if funding is available.

### Task 9 & 10 - Agricultural and Urban Technical Assistance

**Objectives:** CALFED agencies provide technical assistance to help local entities: (1) assess the costs, benefits, and feasibility of potential WUE projects; (2) determine the best approach to implement WUE actions; (3) effectively prepare grant and loan applications; and (4) comply with WUE reporting requirements (e.g. related to urban water conservation certification).

**Planned Activities:** DWR staff will provide technical assistance in a variety of ways including through staff, contractors or consultants, and through the staff of cooperating agencies and organizations such as water suppliers, the AWMC, and the CUWCC. Activities will include

information dissemination, training, direct planning and design service, and assistance with Loan and Grant applications.

The USBR will continue to provide funding and guidance to the Agricultural Water Management Council and the California Urban Water Conservation Council. USBR will also continue to provide technical assistance on new and innovative water measurement through cooperative agreements with the Irrigation Training and Research Center (at Cal Poly, San Luis Obispo) Cal State University at Chico, and the Center for Irrigation Technology (at Fresno State University).

NRCS will continue outreach activities to determine priorities for on-farm WUE grants and technical assistance. These activities will include a series of public meetings geared toward irrigators and growers. NRCS staff will produce a technical memorandum describing the best approaches to providing financial incentives to on-farm water conservation (Product 9.01).

### Task 11 – Water Recycling Loans

**Objectives:** CALFED agencies provide low interest loans to local entities to help them overcome financial barriers to water recycling.

**Planned Activities:** To maximize the use of future appropriations of state monies for grant funding, the SWRCB will utilized the existing State Revolving Fund (SRF) Loan Program to provide low interest loans for water recycling projects.

### Task 12 – Water Recycling Grants

**Objectives:** CALFED agencies use grants to help local entities recycle water.

**Planned Activities:** The SWRCB proposes to award future funding that becomes available for water recycling grants through their Water Recycling Construction program during Year 3 (Product 12.01). However, if Proposition 50 is passed in November, 2002, these funds may not become available until the July 2003 State Budget. Therefore, further grant funding may not be available to administer to local agencies for water recycling projects during Year 3. At this time, the SWRCB proposes approximately \$20 Million of grant funding needed for projects that are ready to proceed with design and construction.

During Year 3 the USBR will award \$19.7 million in water recycling grants through Title XVI (Product 12.02).

### Task 13 - Water Recycling Technical Assistance

**Objectives:** CALFED agencies provide technical assistance to help local entities overcome technical hurdles in recycling water.

**Planned Activities:** The staff of DWR, SWRCB, and the CALFED Program will continue to participate in of the 2002 Water Recycling Task Force during Year 3 and expected to issue their final report in April 2003 (Product 13.01). CALFED Program and SWRCB staff will collaborate through the Task Force on estimating the costs and benefits of water recycling projects in California (Product 13.02).

### Task 14 – Water Recycling Research Grants

**Objectives:** The SWRCB provides research grants according to the provisions of Proposition 13 to advance the state of knowledge on water recycling. Due to strong stakeholder need for funding of regional planning efforts and development of mandatory environmental documents, the SWRCB may consider the use of future grant funds to assist in this additional funding demand.

**Planned Activities:** The SWRCB, in conjunction with the 2002 Water Recycling Task Force, is currently considering the remaining \$1 Million of research funds to be granted towards statewide research needs identified by the Task Force. Additional areas of statewide research needs will be identified in the Task Force's final report to the legislature in April 2003.

### Task 15 – Managed Wetlands Grants

**Objectives:** CALFED agencies could potentially provide grants to the operators of managed wetlands to help them improve water use efficiency.

**Planned Activities:** No grant funding has been identified for Managed Wetlands in Year 3. However, the USBR will work with the U.S. Fish and Wildlife Service to search for available resources.

### Task 16 - Managed Wetlands Technical Assistance

**Objectives:** The USBR provides technical assistance to managed wetland operators to help them overcome technical hurdles to improved water use efficiency.

**Planned Activities:** The staff of USBR and the CALFED Program will continue work to incorporate Quantifiable Objectives into Draft Criteria for water management on wildlife refuges (Product 16.01).

### Task 17 – Oversight and Coordination

**Objectives:** The CALFED Implementation MOU (attached to the ROD) delegated Oversight and Coordination activities to the CALFED Policy Group and CALFED Program Staff. The objective of Oversight is to assist CALFED agencies in interpreting the ROD and in identifying methods for implementing the intent of the ROD within their agencies existing mandates and authorities. The purpose of coordination is to facilitate communication – between CALFED agencies, CALFED Management Group, CALFED Policy Group, the Bay-Delta Public Advisory Committee (and its Subcommittees) – and thereby ensure effective and efficient implementation.

**Planned Activities:** CALFED Program staff will continue to provide guidance to WUE agencies in interpreting the ROD and continue to facilitate communications. Staff will continue to employ methods of informal communications, such as staff-level meetings and conference calls with agency staff dissemination of information. Staff will also engage in formal communications as necessary, such as reports to CALFED Management Group, CALFED Policy Group, the Bay-Delta Public Advisory Committee, and the WUE Subcommittee.

CALFED Program staff will also continue the following ongoing Oversight and Coordination activities:

- Coordinate the preparation of the WUE Annual Assessment and Work Plan (this document) with the staff of DWR, NRCS, SWRCB, and USBR (Product 17.01)
- Coordinate the preparation of the WUE Annual Report (ROD Action #114) with the staff of DWR, NRCS, SWRCB, and USBR (Product 17.02)
- Collect and review WUE tracking information for use in the CALFED Tracking System (Product 17.03)
- Convene approximately six meetings of the WUE Subcommittee (Product 17.04).

CALFED Program staff will also continue to lead implementation of Task 2, Water Measurement/Assurances and Task 4, Urban Water Conservation Certification (see task descriptions above).

### B. Category A and B Programs/Funds

The only potential change in WUE Category A & B funding is NRCS funding from the Federal Farm Bill. USDA, NRCS EQIP funds for on-farm practices are expected to increase significantly and may triple for Year 3. Funding could exceed \$5,000,000. CALFED Management Group has not determined if these funds should be in Category A.

### **C. ROD Implementation Commitments**

The following ROD Actions are behind schedule but projected to be completed during Year 3:

- Establish Milestones (ROD #79): Due 08/27/01
- Define Appropriate Measurement (ROD #77): Due 12/31/01

The WUE Annual Report (ROD #114) is due during Year 3 (12/31/02) and is expected to be completed on schedule. Urban Water Conservation Certification (Action 113) is due during Year 3 (12/01/02) but is not expected to be fully implemented until after legislation is passed and the SWRCB promulgates regulations. This may not occur until late 2004.

Table 4 describes the WUE activities related to Environmental Justice (EJ).

### Table 4. Schedule of WUE Reports to CALFED Management Group

The Environmental Justice Workplan prepared by the BDPAC Environmental Justice Subcommittee has been reviewed. Those activities that can be performed in Year 3 based on available staffing and funding are described in the table below.

Environmental Justice Workplan Tasks	Description of WUE Activity
EJ Subcommittee and CALFED Programs draft goals, objectives, strategies, and performance measures for integration of environmental justice into CALFED program element work plans with technical assistance from EJ reps on each Subcommittee, EJ Coordinator, and/or EJ Subcommittee.	WUE will work with EJ representatives and/or the EJ Coordinator to integrate EJ principles into their work plan.
Integrate EJ annual plan goals and objectives into program element work plans during program subcommittee meetings	The WUE Subcommittee will endeavor to integrate EJ goals & objectives into its activities.
Ensure at least one EJ representative on each BDPAC Subcommittee	The WUE Subcommittee has two EJ members: Conner Everts and Michael Stanley-Jones.
Develop specific criteria, guidelines, community partnership requirements, and outreach process for program PSP's that address existing and emerging environmental justice issues faced by low-income populations and communities of color in CALFED's solution area. Identify within scope of work and budget activities to address environmental justice objectives of the project.	Each of the three water conservation PSPs that DWR has released have included selection criteria related to environmental justice. Each of the PSP peer review panels has included EJ representatives.
For each meeting of the EJ Subcom, ensure participation of at least 1 CALFED program manager and appropriate Subcommittee chairs when appropriate, based on agenda	The WUE Subcommittee chair(s) and/or Program Manager will attend EJ Subcommittee meetings as appropriate, based on the agenda.

### D. Management Group

Table 5 provides a schedule of the expected reports to CALFED Management Group.

Table 5. Schedule of WUE Reports to CALFED Management Group

Date	Topics	Purpose
Aug-02	Draft Urban Certification Framework	Briefing
	Draft Agricultural Assurances	Briefing
Oct-02	DWR's 2003 WUE PSP Criteria	Recommended Approval
Feb-03	Draft Def. of Appropriate Ag Water Meas.	Information
Feb-02	DWR's 2003 WUE PSP Report on Proposals	Information
Mar-02	DWR's 2003 WUE PSP Recom. Selection	Recommended Approval
	Draft WUE Finance Proposal	Recommended Approval
	Draft Def. of Appropriate Meas. (Ag/Urban)	Recommended Approval
May-02	Report on Quantifiable Objectives	Information
	Report on WUE Science	Information
	Draft WUE Technical Assistance Plan	Recommended Approval

In addition, the SWRCB staff proposes submitting quarterly funding status report to the CALFED Management Group.

### E. Public Participation

The CALFED WUE Subcommittee (to the BDPAC) will be the primary mechanism for public participation. The WUE Subcommittee is expected to meet at least four times during Year 3.

Other Ad Hoc stakeholder groups and public workshops will be held as needed to gain stakeholder input on the following specific issues:

- Definition of Appropriate Measurement of Agricultural Water Use (Independent Panel and Public Workshops)
- Definition of Appropriate Measurement of Urban Water Use (Undefined stakeholder process and Public Workshops)
- WUE Science Review Panel (Public meetings)
- WUE PSP Grants and Loans (Public workshops

CALFED WUE Staff and agencies will continue to participate in Environmental Justice and tribal outreach activities.

DWR conducted four WUE workshops throughout California in October, 2002 to inform local public agencies about the requirements for submitting grant and loan applications under the Proposition 13 Act.

On September 19, 2002 BDPAC accepted the following recommendations fro the WUE Subcomittee:

- CALFED Policy Group adoption of Agricultural Water Use Efficiency Milestones Staff
- CALFED Policy Group adoption of Urban Water Conservation Certification Staff Proposal.

The Work Plan addresses necessary next steps to implement the staff proposals, consistent with the recommendations.

### F. Agency participation

Coordination of WUE Implementation with participating CALFED agencies is essential for the successful implementation of the Water Use Efficiency Program. Although CALFED Program Staff serves as the lead entity for coordination, the success of the WUE element depends on teamwork and coordination activities of CALFED Agencies including the Department of Food and Agriculture, DWR, NRCS, SWRCB, and USBR. The staff of WUE agencies meet frequently to develop specific coordination efforts.

### G. Science Review

Please refer to the description of planned activities of Task 1 - Science & Monitoring (Section II, A) for a discussion of planned scientific review.

NOTE: The Science Work Plan Executive Summary is under review by program staff. Upon completion of this review, changes and additions may be made to this section of the Work Plan.

### H. Budget by Task

Please see Table 6, attached.

### **SECTION III - STAGE 1**

### A. Stage 1 Projected Expenditures

Projected WUE expenditures for Stage 1 are significantly different from those described in the ROD (Figure 1 and Table 5). The primary difference is the lack of Grant funding available for water conservation grants (for agriculture, urban, and managed wetlands) in years 2 and 3. This shortfall will significantly impact the anticipated performance of the WUE program element, especially in early years. This most directly affects ROD action 174 (Comprehensive 4-Year WUE Evaluation) – an important part of evaluating CALFED Program balance.

### B. State, Federal, Local/Water User Cost Sharing

CALFED and WUE implementing agencies have appropriately documented the State and Federal investment in CALFED Category A WUE activities. These records indicate that state and federal investment in agricultural and urban water conservation is lagging far behind the levels called for in the ROD but that water recycling investment is ahead of schedule.

WUE agencies also have adequate records of local cost share contributed as a match to CALFED Grants and Loans. However, the ROD calls for an aggregate local cost share of 50% for WUE, which implies that CALFED should be accounting for purely local WUE investments. Activities have begun to accurately account for these investments.

Cost sharing for this program will be reviewed as part of the overall Finance Plan described in the Oversight & Coordination Work Plan.

### DRAFT

Table 6. CALFED WUE - Year 3 Finances

		CALFED	Water Us			3 Finan	ces			
			(\$	in thousand	ds)					
WUE	CALFED	DWR	SWRCB	State Subtotal	USBR	USEPA	NRCS	Federal Subtotal	Local/Us er <sup>2</sup>	Total
Science & Monitoring	\$1,022	\$187	\$0	\$1,209	\$4	\$0	\$0	\$4	\$0	\$1,21
Fund Source				. ,						· ,
General Fund	\$72	\$187		\$259				\$0	Ì	\$25
Federal Trust Funds	\$950	•		\$950				\$0		\$95
Prop 13				\$0				\$0		\$
Prop 50				\$0				\$0		\$
Other State Funding <sup>1</sup>				\$0				\$0		\$
W&RR				\$0	\$4			\$4		9
Matching				\$0				\$0		\$
Water Measurement	\$396	\$38	\$0	\$434	\$8	\$0	\$0	\$8	\$0	\$44
Fund Source										
General Fund	\$396	\$38		\$434				\$0		\$43
Federal Trust Funds		•		\$0				\$0		
Prop 204				\$0				\$0		\$
Prop 13				\$0	-			\$0		\$
Prop 50				\$0				\$0		\$
Other State Funding <sup>1</sup>				\$0				\$0		\$
W&RR				\$0	\$8			\$8		\$
Matching				\$0				\$0		\$
3. Quantifiable Objectives	\$807	\$150	\$0	\$957	\$8	\$0	\$0	\$8	\$0	\$96
Fund Source										
General Fund	\$57	\$75		\$132				\$0		\$13
Federal Trust Funds	\$750	, -		\$750				\$0		\$75
Prop 13				\$0				\$0		
Prop 50				\$0				\$0		\$
Other State Funding <sup>1</sup>		\$75		\$75				\$0		\$7
W&RR				\$0	\$8			\$8		\$
Matching				\$0				\$0		\$
Certification	\$274	\$75	\$0	\$349	\$12	\$0	\$0	\$12	\$0	\$36
Fund Source										
General Fund	\$274	\$75		\$349				\$0		\$34
Federal Trust Funds	<b>,</b>	7.0		\$0				\$0		
Prop 13				\$0				\$0		\$
Prop 50				\$0				\$0		\$
Other State Funding <sup>1</sup>				\$0				\$0		\$
W&RR				\$0	\$12			\$12		\$1
Matching				\$0				\$0		\$
5. Agricultural Loans	\$0	\$9,100	\$0	\$9,100	\$0	\$0	\$0	\$0	\$0	\$9,10
Fund Source										
General Fund				\$0				\$0		\$
Federal Trust Funds				\$0				\$0		\$
Prop 13		\$9,100		\$9,100				\$0		\$9,10
Prop 50		· · · · · · · · · · · · · · · · · · ·		\$0				\$0		, (
Other State Funding <sup>1</sup>				\$0				\$0		\$
W&RR				\$0				\$0		\$
Matching				\$0				\$0		\$
6. Agricultrual Grants	\$64	\$150	\$0	\$214	\$1,000	\$0	\$0	\$1,000	\$0	\$1,21
Fund Source	7 - 1	,	7,7	7	, ,	7.7	7-	, .,	7.	· - ,=
General Fund	\$64	\$150		\$214				\$0		\$21
Federal Trust Funds	ΨΟΨ	ψ100		\$0				\$0		Ψ2
Prop 13				\$0				\$0		
Prop 50				\$0				\$0		•
Other State Funding <sup>1</sup>				\$0				\$0		\$
W&RR				\$0	\$1,000			\$1,000		\$1,00

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The number   The				שנ	\T/\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	7.					
Fund Source	Matching				\$0				\$0		\$0
Section		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Federal Trust Funds											
Prop 13											
Prop 80											
Color   State Funding											
Matching   Sea	Other State Funding <sup>1</sup>								\$0		
Surda Grants											
Fund Source					\$0				\$0		\$0
General Fund   Sol   S	8. Urban Grants	\$64	\$18,685	\$0	\$18,749	\$610	\$0	\$0	\$610	\$11,000	\$30,359
Federal Trust Funds	Fund Source										
Prop 13		\$64	\$350								
Prop 50   S0   S0   S0   S0   S0   S0   S0			<b>040.00</b> F								
Other State Funding			\$18,335								
WARR   S0   S0   S0   S0   S0   S11,000   S1											
Matching	_					\$610					
Fund Source	Matching				\$0					\$11,000	
Fund Source	Agricultural Tech Ast	\$0	\$1,775	\$0	\$1,775	\$214	\$0	\$0	\$214	\$0	\$1,989
Federal Trust Funds	Fund Source			·					·		
Prop 13	General Fund		\$998		\$998				\$0		\$998
Prop 50											
Other State Funding!         \$777         \$777         \$90         \$214         \$214         \$214           W&RR         \$0         \$0         \$1,576         \$0         \$1,576         \$0         \$1,676         \$0         \$1,676         \$0         \$1,676         \$0         \$1,676         \$0         \$1,676         \$0         \$1,676         \$0         \$1,676         \$0         \$1,676         \$0         \$1,676         \$0         \$1,676         \$0         \$1,676         \$0         \$1,676         \$0         \$1,676         \$0         \$1,676         \$0         \$1,676         \$0         \$1,676         \$0         \$1,676         \$0         \$1,676         \$0         \$1,676         \$0         \$0         \$1,676         \$0         \$1,676         \$0         \$1,676         \$0         \$1,676         \$0         \$1,676         \$0         \$1,676         \$0         \$1,676         \$0         \$1,676         \$0         \$1,676         \$0         \$0         \$0         \$1,676         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0											
Warr			A								
Matching   So   S1,576   S0   S1,576   S100   S0   S100   S0   S1,676   S100   S0   S1,676   S100   S0   S100   S0   S1,676   S100   S0   S100   S0   S1,676   S100   S0   S100   S0   S100   S0   S			\$///			¢214					
10. Urban Tech Ast						φ2 14					
Fund Source		\$0	\$1.576	\$0		\$100	\$0	\$0		\$0	
General Fund   S510		ΨΟ	\$1,570	ΨΟ	Ψ1,570	\$100	Ψυ	ΨΟ	Ψ100	ΨΟ	ψ1,070
Federal Trust Funds			\$510		\$510				\$0		\$510
Prop 13			ΨΟΙΟ								
Other State Funding¹         \$1,066         \$1,066         \$1,066         \$100         \$100         \$1,066         \$100         <	Prop 13										\$0
W&RR Matching         \$0         \$100         \$100         \$100           11. Water Recycling Loans         \$0 </td <td></td>											
Matching   So   So   So   So   So   So   So   S			\$1,066			2122					
11. Water Recycling Loans						\$100					
Fund Source		<b>¢0</b>	¢0	¢0		<b>¢0</b>	60	<b>*</b> 0		¢ο	
Separal Fund   Separal Funds   Separal Funding   Separal Funding   Separal Funding   Separal Funds   Separal		\$0	\$0	φu	<b>\$</b> 0	\$0	φu	φU	\$0	\$0	<b>\$</b> 0
Federal Trust Funds					¢0				\$0		*0
Prop 13											\$0 \$0
Other State Funding¹         \$0 <td></td>											
W&RR Matching         \$0					\$0				\$0		\$0
Matching   So   So   So   So   So   So   So   S											
12. Water Recycling Grants											
Fund Source			**	***							
Separal Fund		\$0	\$0	\$26,500	\$26,500	\$15,900	\$0	\$0	\$15,900	\$212,028	\$254,428
Federal Trust Funds											
Prop 13         \$16,500         \$16,500         \$16,500         \$0         \$16,500         \$10,000         \$0         \$10,000         \$0         \$10,000         \$0         \$10,000         \$0         \$10,000         \$0         \$10,000         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$0         \$15,900         \$16,000         \$160         \$0         \$683         \$15,900         \$160         \$0         \$683         \$160         \$0         \$0         \$160         \$0         \$160         \$0         \$0         \$0         \$0         \$160         \$0         \$0         \$0         \$0         \$0         \$0         \$0											
State Funding				\$16 500							
Other State Funding¹         \$0         \$0         \$0         \$0           W&RR         \$0         \$15,900	Prop 50										
Matching         \$0         \$0         \$0         \$212,028         \$212,028           13. Water Recy Tech Ast         \$0         \$523         \$0         \$523         \$160         \$0         \$0         \$160         \$0         \$683           Fund Source         \$0	Other State Funding <sup>1</sup>			. ,	\$0				\$0		\$0
13. Water Recy Tech Ast         \$0         \$523         \$0         \$523         \$160         \$0         \$160         \$0         \$683           Fund Source         Ceneral Fund         \$523         \$523         \$523         \$0         \$0         \$523           Federal Trust Funds         \$0         \$0         \$0         \$0         \$0         \$0           Prop 13         \$0         \$0         \$0         \$0         \$0         \$0           Prop 50         \$0         \$0         \$0         \$0         \$0         \$0           Other State Funding¹         \$0         \$160         \$160         \$160         \$160						\$15,900					
Fund Source         \$523         \$523         \$0         \$523           General Funds         \$0         \$0         \$0         \$0           Federal Trust Funds         \$0         \$0         \$0         \$0           Prop 13         \$0         \$0         \$0         \$0           Prop 50         \$0         \$0         \$0         \$0           Other State Funding¹         \$0         \$160         \$160         \$160											
General Fund         \$523         \$523         \$0         \$523           Federal Trust Funds         \$0         \$0         \$0         \$0           Prop 13         \$0         \$0         \$0         \$0           Prop 50         \$0         \$0         \$0         \$0           Other State Funding¹         \$0         \$160         \$160         \$160		\$0	\$523	\$0	\$523	\$160	\$0	\$0	\$160	\$0	\$683
Federal Trust Funds         \$0 <td></td>											
Prop 13         \$0 <t< td=""><td></td><td></td><td>\$523</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>			\$523								
Prop 50         \$0         \$0         \$0           Other State Funding¹         \$0         \$0         \$0           W&RR         \$0         \$160         \$160         \$160											
Other State Funding¹         \$0         \$0         \$0           W&RR         \$0         \$160         \$160         \$160											
W&RR         \$0         \$160         \$160         \$160											
	W&RR				\$0	\$160					\$160
	Matching										

14. Wtr Rec Resrch Grants	\$0	\$0	\$1,000	\$1,000	\$0	\$0	\$0	\$0	\$0	\$1,000
Fund Source										
General Fund				\$0				\$0		\$0
Federal Trust Funds				\$0				\$0		\$0
Prop 13			\$1,000	\$1,000				\$0		\$1,000
Prop 50			, ,	\$0				\$0		\$0
Other State Funding <sup>1</sup>				\$0				\$0		\$0
W&RR				\$0				\$0		\$0
Matching				\$0				\$0		\$0
15. Mgd Wetlands Grants	\$0	\$0	\$0	\$0	\$20	\$0	\$0	\$20	\$0	\$20
Fund Source										
General Fund				\$0				\$0		\$0
Federal Trust Funds				\$0				\$0		\$0
Prop 13				\$0				\$0		\$0
Prop 50				\$0				\$0		\$0
Other State Funding <sup>1</sup>				\$0				\$0		\$0
W&RR				\$0	\$20			\$20		\$20
Matching				\$0				\$0		\$0
16. Mgd Wetlands Tech Ast	\$16	\$0	\$0	\$16	\$20	\$0	\$0	\$20	\$0	\$36
Fund Source			,		,				,	, ,
General Fund	\$16			\$16				\$0		\$16
Federal Trust Funds	¥			\$0				\$0		\$0
Prop 13				\$0				\$0		\$0
Prop 50				\$0				\$0		\$0
Other State Funding <sup>1</sup>				\$0				\$0		\$0
W&RR				\$0	\$20			\$20		\$20
Matching				\$0	,			\$0		\$0
17. Oversight & Coordination	\$313	\$0	\$0	\$313	\$0	\$0	\$0	\$0	\$0	\$313
Fund Source	7010	7.	7.	7010	7.	7.5	7.5	1.	1.	7010
General Fund	\$313			\$313				\$0		\$313
Federal Trust Funds	ψ0.0			\$0				\$0		\$0
Prop 13				\$0				\$0		\$0
Prop 50				\$0				\$0		\$0
Other State Funding <sup>1</sup>				\$0				\$0		\$0
W&RR				\$0				\$0		\$0
Matching				\$0				\$0		\$0
WUE				State				Federal	Local/Us	
	CALFED	DWR	SWRCB	Subtotal	USBR	USEPA	NRCS	Subtotal	er <sup>2</sup>	Total
WUE Approved Funding	\$2,956	\$32,259	\$27,500	\$62,715	\$18,056	\$0	\$0	\$18,056	\$223,028	\$303,799
General Fund	\$1,256	\$2,906		\$4,162				\$0		\$4,162
Federal Trust Funds	\$1,700	. /		\$1,700				\$0		\$1,700
Prop 13		\$27,435	\$17,500	\$44,935				\$0		\$44,935
Prop 50		,	\$10,000	\$10,000				\$0		\$10,000
Other State Funding <sup>1</sup>		\$1,918	\$0	\$1,918				\$0		\$1,918
W&RR		, ,	, -	\$0	\$18,056			\$18,056		\$18,056
Matching				\$0	. ,			\$0	\$223,028	\$223,028
										,

<sup>&</sup>lt;sup>1</sup> Funding from various DWR sources including Renewable Resources Investment fund & Energy Resources Program account
<sup>2</sup> For local/User funding, include only projected matching funds associated with grants, loans and other local assistance. SWP and CVPIA RF should be listed under DWR and USBR respectively.

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## Appendix A. Descriptions & Deadlines of ROD Actions

R	OD	Action Title	Description of Commitment	Deadline
No.	Page		P	
34	61	Program Implementation Plan	Prepare a program implementation plan, including proposed organizational structure consistent with the overall CALFED governance structure, responsibilities for technical assistance programs and the grant/loan program, and evaluation procedures	12/31/00
35	62	Public advisory committee	Advisory committee to advise State and Federal agencies on structure and implementation of assistance programs and coordinate Federal, State, regional and local efforts	12/31/00
78	60	Loan & Grant Program	Implement an incentive-based program which will provide grants (or cooperative agreements) or loans to the most promising water use efficiency projects including urban, Ag, recycling.	01/01/01
76	62	Finance proposal	Develop a detailed finance proposal for Stage 1, including an evaluation of local cost share potential	07/31/01
171	61	Refine Quantifiable Objectives	Finish current work on Quantifiable Objectives and refine Targeted Benefits based on public comments and results of First RFP	Not specified
79	62	Establish Milestones	Establish specific milestones and associated benefits, remedies and/or consequences to track and guide the implementation of Agricultural Water Use Efficiency Program	08/27/01
80, 114, 142, 177, 193, 270, 233	64	Annual Report	CALFED will require annual reports from implementing agencies describing progress of implementation efforts	12/31/01 (80) 12/31/02 (114), 12/31/03 (142), 12/31/04 (177), 12/31/05 (193), 12/31/06 (270), 12/31/07 (233)
77	63	Define Appropriate Measurement	Prepare a consensus definition of appropriate measurement	12/31/01
113	62	Urban BMP Certification	Implement a process for certification of water suppliers' compliance with the terms of the urban MOU, including implementation of best management practices for urban water conservation	12/01/02
141	63	Water Measurement Legislation	Work with California State Legislature to develop legislation for introduction and enactment in 2003 legislative session requiring the appropriate measurement of all water uses in the State of California	12/01/03
173	64	Determine Funding Needs	Determine additional funding needs	06/01/04
175	62	Technical assistance	Provide technical assistance to urban agencies and agricultural districts developing management plans under Urban WM Planning Act and AB 3616 process [Includes Cooperative Agreements with AWMC & CUWCC and agency technical assistance and sponsored research]	12/01/04
174	62	Comprehensive 4-year evaluation	Conduct a comprehensive evaluation of the Program's first 4 years, and make appropriate additional State and Federal investments and actions to assure continued aggressive implementation of water use efficiency measures in the State.	12/31/04
176	62	Update Finance Plan	Make appropriate additional State and Federal investments and actions to assure continued aggressive implementation of WUE measures in State.	12/31/04
268	76	Performance Measures and Indicators	Establish performance measures and indicators, and a consistent strategy of ongoing development of these for each program area	Not specifie
269	63, 53 & 72	Remove Transfer Disincentives	Develop and support proposals to transfer water savings credits to landowners, not irrigation and water supply agencies	Not specified